



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant (s): Seki Et Al.

Serial No.: 09/857,651

Filed: December 8, 1999

Group Art Unit: 1638

Examiner: David H. Kruse

For: **A METHOD FOR MANUFACTURING GLYCOPROTEINS HAVING HUMAN
TYPE GLYCOSYLATION**

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING
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Dena H. Tuchman

PRINT OR TYPE NAME OF PERSON SIGNING CERTIFICATE

Dena H. Tuchman

SIGNATURE OF PERSON SIGNING CERTIFICATE

April 1, 2005

DATE OF SIGNATURE

Commissioner for Patents
Alexandria, VA 22313

Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to Applicant's duty of disclosure under 37 CFR §1.56, the
Examiner's attention is directed to the information identified in the attached Form
PTO 1449.

A copy of all cited patents and printed publications is enclosed. The
Examiner is requested to review each reference and formulate his own understanding
thereof.

Respectfully submitted,

Ronald S. Maciak

Ronald S. Maciak

Registration No. 35,262

Phone: 317-337-4829

9330 Zionsville Road
Indianapolis, IN 46268

:dht
Enclosures

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INFORMATION DISCLOSURE STATEMENT FEE SHEET

Please charge \$180.00 as required by 37 CFR §1.17(p) to our Deposit Account
No. 04-1529 for the submission of the attached Information Disclosure Statement
submitted under 37 CFR § 1.97 (c). If this estimate is incorrect, please charge or
credit our account accordingly. Two duplicate copies of this sheet are enclosed.

Respectfully submitted,

Ronald S. Maciak

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INFORMATION DISCLOSURE STATEMENT

(Use Several Sheets if necessary)

ATTY DOCKET NO.
62,736AAPPLICANT
Tatsuji SekiFILING DATE
08/27/2001SERIAL NO.
09,857,651GROUP
1638**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA	US 5,202,422	Apr-1993	Hiatt et al.			
	AB	US 5,879,912	Mar-1999	Roth			
	AC	US 6,046,040	Apr-2000	Nishiguchi et al.			
	AD	US 6,054,304	Apr-2000	Taniguchi et. al			
	AF	US 2001/055584	Dec-2001	McKenzie, et al.			
	AG	US 6,331,418 B1	Dec-2001	Roth			
	AH	US 2004/0072290	Apr-2004	Umana, Paul et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES NO	
	BA	94/12646	Jun-1994	PCT				
	BB	95/02683	Jan-1995	PCT				
	BC	98/31826	Jul-1998	PCT				
	BD	99/24584	May-1999	PCT				
	BF	99/51185	Oct-1999	PCT				
	BG	00/29603	May-2000	PCT				
	BH	00/34490	Jun-2000	PCT				
	BI	00/49153	Aug-2000	PCT				
	BJ	00/52136	Sep-2000	PCT				
	BK	00/287692	Oct-2000	Mitsui Chemicals, Inc.; Kirin Brewery Co., Ltd. (Astract)				
	BL	01/29242	Apr-2001	PCT				
	BM	01/31045	May-2001	PCT				
	BN	01/31044	May-2001	PCT				
	BO	01/49831 A2/A3	Jul-2001	PCT				
	BP	01/62912 A2	Aug 2001	PCT				
	BQ	01/64901 A1	Sep-2001	PCT				
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	BS	02/00879	Jan-2002	PCT				
	BT	02/070672 A2/A3	Sep-2002	PCT				
	BU	EP 1 243 647 A1	Sep-2002	EP English equivalent of wo/0146400 (JP)				
	BV	03/011878 A2/A3	Feb-2003	PCT				
	BW	03/078614 A2/A3	Sep-2003	PCT				

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INFORMATION DISCLOSURE STATEMENT (Use Several Sheets if necessary)	ATTY DOCKET NO. 62,736A	SERIAL NO. 09,857,651
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	FILING DATE 08/27/2001	GROUP 1638

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Place of Publication, Etc.)

CCA	LEROUGE P ET AL: "N-Glycosylation Of Recombinant Pharmaceutical Glycoproteins Produced In Transgenic Plants: Towards An Humanisation Of Plant N-Glycans" Current Pharmaceutical Biotechnology, Bentham Science Publishers, Boca Raton, FL, US, Vol. 1, No. 2, 2000, Pages 347-354
CCB	LI BO ET AL: "Cloning, Expression And Characterization Of A cDNA (6a8) Encoding A Novel Human Alpha-Mannosidase" European Journal Of Biochemistry, Vo. 267, No. 24, December 2000, Pages 7176-7182
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CCE	MIYOSHI E ET AL: "The Alpha1-6-Fucosyltransferase Gene And Its Biological Significance" BBA - General Subjects, Elsevier Science Publishers, NL, Vol. 1473, No. 1, 17-Dec-1999
CCF	MOKRZYCKI-ISSARTEL NATHALIE ET AL: "A Transient Tobacco Expression System Coupled To MALDI-ToF-MS Allows Validation Of The Impact Of Differential Targeting On Structure And Activity Of A Recombinant Therapeutic Glycoprotein Produced In Plants." Febs Letters, Vol. 552, No. 2-3, 25-September 2003, Pages 170-176
CCG	PALACPAC NIRIANNE Q ET AL: "Structures Of N-Linked Oligosaccharides Of Glycoproteins From Tobacco By2 Suspension Cultured Cells." Bioscience Biotechnology And Biochemistry, Vol. 63, No 1, Jan-1999, Pages 35-39
CCH	RAYON CATHERINE ET AL: "N-Glycosylation Of Phytohemagglutinin Expressed In Bean Cotyledons Or In Transgenic Tobacco Cells", Plant Physiology And Biochemistry (Paris), Vol. 34, No. 2, 1996, Pages 273-281
CCI	ROTHMAN "Protein Sorting by Selective Retention in the Endoplasmic Reticulum and Golgi Stack" 1987, Cell. August 14 50(4):521-2
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CCN	VAN ENGELN F A ET AL: "Coordinate Expression Of Antibody Subunit Genes Yields High Levels Of Functional Antibodies In Roots Of Transgenic Tobacco", Plant Molecular Biology, NL, Nijhoff Publishers, Dordrecht, Vol. 26, No. 26, 1994, Pages 1701-1710-1710
CCO	VITALE AND CHRISPEELS 1984 J Cell Biol 99 133-140
CCP	VOELKER T A ET AL: "In-Vitro Mutated Phytohemagglutinin Genes Expressed In Tobacco Seeds: Role Of Glycans In Protein Targeting And Stability" Plant Cell, Vol. 1, No. 1, 1989, Pages 95-104
CCQ	WEE EG. ET AL: "Targeting Of Active Sialyltransferase To The Plant Golgi Apparatus", Plant Cell, October 1998, 1759-68
CCR	WRIGHT A ET AL: "Effect Of Glycosylation On Antibody Function: Implications For Genetic Engineering", Trends In Biotechnology, Gb, Elsevier Publications, Cambridge, Vol. 15, No. 1, 1-January-1997, Pages 26-30
CCS	YIN ZC ET AL: "Obtaining Transgenic Rice Plants and Their Progenies Using Agrobacterium Tumefaciens" Translated Chinese" Yi Chuan Xue Bao 1998 Dec;25(6): 517-24. PMID: 10465898
CCU	YOSHIDA K ET AL: "Molecular Biology And Application Of Plant Peroxidase Genes.", Applied Microbiology And Biotechnology, Vol. 60, No. 6, February 2003, Pages 665-670
CCW	ZHANG, YE et al.: "Transformation of Tobacco Using Human β -1, 4 Galactosyltransferase Gene and Regeneration of Transgenic Plants" Annual reports of IC Biotech Vol. 18 1995, publicly available August 31, 1998
CCX	ZHANG ET AL.: "Agrobacterium-Mediated Transformation of Elite Indica and Japonica Rice Cultivars" Molecular Biotechnology 1997 Humana press, pages 223-231
CCY	ZHANG ET. AL "Quantative Analysis And Process Monitoring Of Site-Specific Glycosylation Microheterogeneity In Recombinant Human Interferon-Y From Chinese Hamster Ovary Cell Culture By Hydrophilic Interaction Chromatography", (1998) Journal of Chromatography B, 712, 73-82
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CA	BAKKER H ET AL: "Galactose-Extended Glycans Of Antibodies Produced By Transgenic Plants", Proceedings Of The National Academy Of Sciences Of USA, National Academy Of Science. Washington, US, Vol. 98, No. 5, 27-February-2001, Pages 2899-2904
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CC	CABANES-MACHETEAU MARION ET AL: "N-Glycosylation Of A Mouse IgG Expressed In Transgenic Tobacco Plants." Glycobiology, Vol. 9, No. 4, April 1999, Pages 365-372
CE	DATABASE EMBL 'ONLINE' 28 April 2000 Retrieved From Ebi Database Accession No. AJ277603, Sequence, Annotation, Bakker, H "Arabidopsis Thaliana mRNA for Beta1,2-Xylosyltransferase (xylt gene)"
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CH	FUJIYAMA KAZUHITO ET AL: "In Vivo Conversion Of Glycan To Human Compatible Type By Transformed Tobacco Cells." Biochemical And Biophysical Research Communications, Vol. 289, No. 2, 30-November 2001, Pages 553-557
CI	GASSER, CHARLES S. ET AL.: Genetically Engineering Plants for Crop Improvement; Science volume 244, 16 June 1989, page 1293-1299
CJ	GOMEZ L AND CHRISPEELS M J: "Complementation Of An Arabidopsis Thaliana Mutant That Lacks Complex Asparagine-Linked Glycans With The Human cDNA Encoding N-acetylglucosaminyltransferase I", Proceedings Of The National Academy Of Sciences Of USA, National Academy Of Science. Washington, US, Vol. 91, March 1994, Pages 1829-1833
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CQ	IHARA Y ET AL: "cDNA Cloning, Expression, And Chromosomal Localization Of Human N-acetylglucosaminyltransferase III (GnT-III)" Journal Of Biochemistry, Vol. 113, No. 6, 1993, Pages 692-698
CR	ISHIDA, Y ET AL: "High Efficiency Transformation of Maize (Zea mays L.) mediated by Agrobacterium tumefaciens" Nature Biotechnology volume 14, June 1996, pages 745-750
CS	Jähne, A ET AL.: "Genetic Engineering of Cereal crop Plants: A Review", Euphytica 85535-44, 1995 Kluwer Academic Publishers, printed in the Netherlands
CU	KAWAR ZIAD ET AL: "Insect Cells Encode A Class II Alpha-Mannosidase With Unique Properties", Journal Of Biological Chemistry, Vol. 267, No. 19, 11-May-2001, Pages 16335-16340
CW	KLEENE R ET AL: "Expression Of Soluble Active Human Beta1, 4 Galactosyltransferase In Saccharomyces Cerevisiae", Biochemical And Biophysical Research Communications, Us, Academic Press, Inc., Orlando, FL, Vol. 201, No. 1, 30-May-1994, Pages 160-167
CX	KU, MAURICE S.B. ET AL: "High-Level Expression of Maize Phosphoenolpyruvate Carboxylase in Transgenic Rice Plants", Nature Biotechnology Vol 17 January 1999, pages 76-80
CY	LEITER H ET AL: "Purification, cDNA Cloning And Expression Of GDP-L-Fuc:Asn-Linked GlcNAc Alpha-1,3-Fucosyltransferase From Mung Beans" Journal Of Biological Chemistry, American Society Of Biological Chemists, Baltimore, Md, Us, Vol. 274, No. 31, 30-July-1999, Pages 21830-21839
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